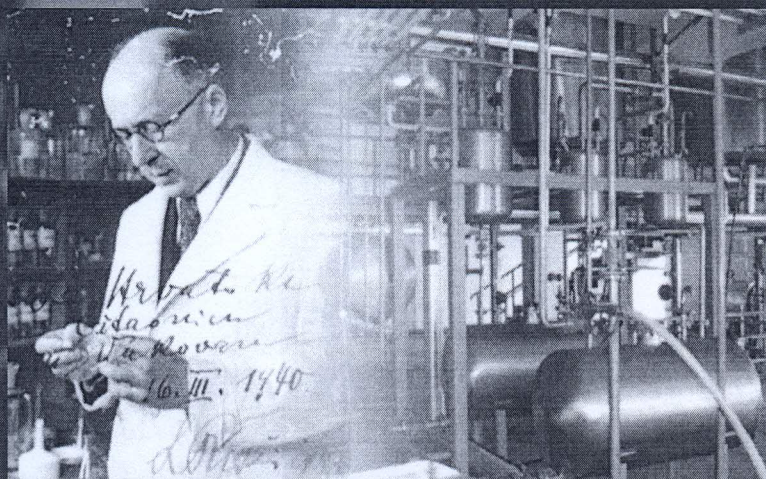


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International Scientific and Professional Conference

# 15<sup>th</sup> Ružička days

“TODAY SCIENCE – TOMMOROW INDUSTRY”



11<sup>th</sup> and 12<sup>th</sup> September 2014  
Vukovar, Croatia

## BOOK OF ABSTRACTS

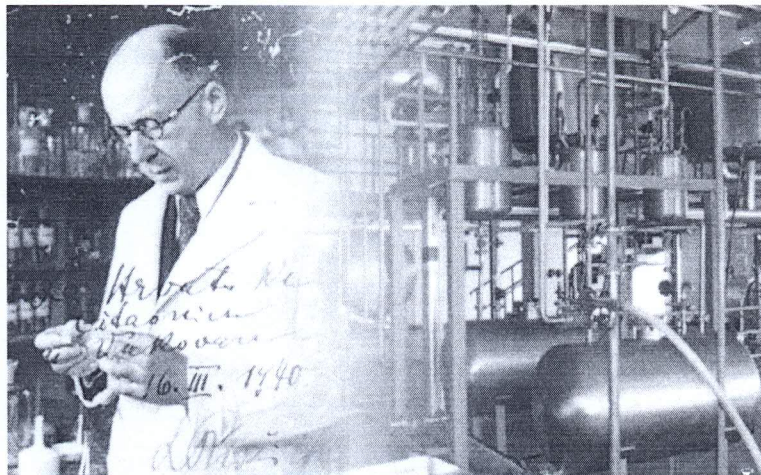


Hrvatsko društvo kemijskih inženjera i tehnologa  
Prehrambeno-tehnološki fakultet Sveučilišta Josipa Jurja Strossmayera u Osijeku  
European Federation of Food Science and Technology  
European Association for Chemical and Molecular Sciences  
European Hygienic Engineering & Design Group

međunarodni znanstveno-stručni skup

# ***XV. Ružičkini dani***

**“DANAS ZNANOST – SUTRA INDUSTRIJA”**



**11. i 12. rujna 2014.  
Vukovar, Hrvatska**

## **KNJIGA SAŽETAKA**

**Osijek, 2014.**

**KNJIGA SAŽETAKA** XV. Ružičkini dani  
DANAS ZNANOST - SUTRA INDUSTRIJA

**BOOK OF ABSTRACTS** *15<sup>th</sup> Ružička days*  
*TODAY SCIENCE – TOMORROW INDUSTRY*

**Izdavači** Prehrambeno-tehnološki fakultet Osijek  
Hrvatsko društvo kemijskih inženjera i tehnologa (HDKI)  
**Published by** *Faculty of Food Technology Osijek*  
*Croatian Society of Chemical Engineers*

**Glavni urednik**  
**Chief Editor** Drago Šubarić

**Izvršne urednice** Mirela Planinić  
**Executive Editors** Đurđica Ačkar

**Tehničke urednice** Ivana Pavleković  
**Technical Editors** Đurđica Ačkar

**Lektor**  
**Proofreader** Antonija Šarić

**Dizajn naslovnice**  
**Cover sheet design** Ivana Pavleković

**Tisak i uvez**  
**Printing and Binding** Grafika d.o.o., Osijek, Hrvatska

**Naklada**  
**Number of Copies** 250

**Znanstveno-organizacijski odbor**  
**Scientific and Organizing Committee** Drago Šubarić (predsjednik/*chairman*),  
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Skender, Nenad Trinajstić, Željko Turkalj, Ivan Vrdoljak

ISBN (PTF): 978-953-7005-34-4  
ISBN (HDKI): 978-953-6894-52-9

CIP zapis dostupan u računalnom katalogu  
Gradske i sveučilišne knjižnice Osijek pod brojem 131120016  
*A CIP catalogue record for this publication is available from the  
City and University Library Osijek under 131120016*

***Pokrovitelj:***

Hrvatska akademija znanosti i  
umjetnosti  
Razred za matematičke,  
fizičke i kemijske znanosti

***Under the Auspice of:***

*Croatian Academy of Sciences and  
Arts  
Department of Mathematical,  
Physical and Chemical Sciences*



***Uz potporu:***

Ministarstvo znanosti,  
obrazovanja i sporta  
Republike Hrvatske

***Supported by:***

*Ministry of Science, Education and  
Sports of the Republic of Croatia*



Ministarstvo poljoprivrede  
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*Ministry of Agriculture of the  
Republic of Croatia*



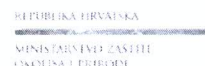
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Sveučilište Josipa Jurja  
Strossmayera u Osijeku

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of Osijek*



Vukovarsko-srijemska  
županija

*Vukovar-Srijem County*



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*City of Vukovar*





## **Nutritivna vrijednost masti kozjeg mlijeka**

### **Nutritive value of goat milk fat**

Mila Arapceska<sup>1</sup>, Zehra Hajrulai-Musliu<sup>2</sup>, Riste Uzunov<sup>2</sup>, Zivko Jankuloski<sup>1</sup>

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In recent years there has been an increased interest for fatty acid composition of goat milk. The aim of this study was to analyze the fatty acid composition of goat milk compared to cow milk.

Milk samples were taken from dairy goats (n=20) grazing on pastures, and from dairy cows (n=20) fed with concentrate, grass hay and premix. Fatty acid profile was analyzed by gas chromatography, using Hewlett Packard 5890 series II gas chromatograph with flame ionization detector, and capillary column HP88 (60m x 0.250mm x 0.20µm). The obtained results showed that goat milk contained higher content of butyric (C4:0), caproic (C6:0), caprylic (C8:0), capric (C10:0), lauric (C12:0), myristic (C14:0), palmitic (C16:0) and linoleic acid (C18:2), but lower content of stearic (C18:0) and oleic acid (C18:1) than cow milk. This specific fatty acid composition contributes to easier digestion of goat milk fat and adds significantly to its nutritive value.